



PATENTIN Revised Listing_ST25.txt
SEQUENCE LISTING

<110> Chano, Tokuhiro
Okabe, Hidetoshi
Ikegawa, Shiro

<120> RB1 gene induced protein (RB1CC1) and gene

<130> 3190-070

<140> US 10/516,558
<141> 2004-11-30

<150> PCT/JP03/00882
<151> 2003-01-30

<150> JP P2002-161400
<151> 2002-06-03

<150> JP P2002-214978
<151> 2002-07-24

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<170> PatentIn version 3.5

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Gly Gly Glu Cys Met Ala Ala Asp Arg Arg Val Cys Thr Tyr Ser Ala
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Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
65 70 75 80

Cys Asp Arg Pro Pro Ala Ile Pro Lys Thr Thr Phe Ser Thr Glu Asn
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Asp Met Glu Ile Lys Val Glu Glu Ser Leu Met Met Pro Ala Val Phe
100 105 110

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His Thr Val Ala Ser Arg Thr Gln Leu Ala Leu Glu Met Tyr Glu Val
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Ala Lys Lys Leu Cys Ser Phe Cys Glu Gly Leu Val His Asp Glu His
130 135 140

Leu Gln His Gln Gly Trp Ala Ala Ile Met Ala Asn Leu Glu Asp Cys
145 150 155 160

Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
165 170 175

Asn Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
180 185 190

Gly Thr Ala Val Ser Val Met Ala Lys Ile Pro Leu Leu Glu Cys Leu
195 200 205

Thr Arg His Ser Tyr Arg Glu Cys Leu Gly Arg Leu Asp Ser Leu Pro
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Glu His Glu Asp Ser Glu Lys Ala Glu Thr Lys Arg Ser Thr Glu Leu
225 230 235 240

Val Leu Ser Pro Asp Met Pro Arg Thr Thr Asn Glu Ser Leu Leu Thr
245 250 255

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260 265 270

Glu Ser Gly Lys Glu Ile Arg Glu Ser Cys Gln Ser Thr Val His Gln
275 280 285

Gln Asp Glu Thr Thr Ile Asp Thr Lys Asp Gly Asp Leu Pro Phe Phe
290 295 300

Asn Val Ser Leu Leu Asp Trp Ile Asn Val Gln Asp Arg Pro Asn Asp
305 310 315 320

Val Glu Ser Leu Val Arg Lys Cys Phe Asp Ser Met Ser Arg Leu Asp
325 330 335

Pro Arg Ile Ile Arg Pro Phe Ile Ala Glu Cys Arg Gln Thr Ile Ala
340 345 350

Lys Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg
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Leu Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Gly Arg Leu Val Asn
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Glu Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Lys Arg Ala
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Glu Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His
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Ile Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu
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Cys Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His
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Tyr Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Arg Leu Tyr
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Ser Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp
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Ile Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu
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Val Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu
595 600 605

His Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser
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Leu Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Ser Glu Gln Lys
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Ala Ser Val Ser Gln Thr Ser Pro Gln Ser Ala Ser Ser Pro Arg Met
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Glu Ser Thr Ala Gly Ile Thr Thr Thr Ser Pro Arg Thr Pro Pro
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Glu Leu Ser Pro Asp Ser Ile Asp Ala His Thr Phe Asp Phe Glu Thr
690 695 700

Ile Pro His Pro Asn Ile Glu Gln Thr Ile His Gln Val Ser Leu Asp
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Leu Asp Ser Leu Ala Glu Ser Pro Glu Ser Asp Phe Met Ser Ala Val
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Asn Glu Phe Val Ile Glu Glu Asn Leu Ser Ser Pro Asn Pro Ile Ser
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Asp Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val
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Ile Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Asn Val Cys Gly
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Lys Glu Asp Phe Gly Asp His Thr Ser Leu Asn Val Gln Leu Glu Arg
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Cys Arg Val Val Ala Gln Asp Ser His Phe Ser Ile Gln Thr Ile Lys
805 810 815

Glu Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp
820 825 830

Phe Ser Asn Ser Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile
835 840 845

Glu Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln
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915 920 925

Glu Lys Asp Gln Lys Leu Leu Glu Met Glu Asn Ile Met His Ser Gln
930 935 940

Asn Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Ile Val Leu Glu
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Asp Leu Lys Leu His Val Glu Asn Asp Glu Lys Leu Gln Leu Leu
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Arg Ala Glu Leu Gln Ser Leu Glu Gln Ser His Leu Lys Glu Leu Glu
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Gly Thr Asp Thr Asn Pro Ile Phe Leu Phe Asn Lys Glu Met Ile Leu
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His Thr Val Ala Ser Arg Thr Gln Leu Ala Val Glu Met Tyr Asp Val
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Ser Asn Ser Tyr Gln Lys Leu Leu Phe Lys Phe Glu Ser Ile Tyr Ser
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Asp Tyr Leu Gln Ser Ile Glu Asp Ile Lys Leu Lys Leu Thr His Leu
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Glu Arg Gly Lys Glu Leu Arg Glu Ser Cys Gln Ser Thr Val Gln Gln
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Leu Asp Asn Gln Asn Met Lys Ala Ile Lys Gly Leu Glu Asp Arg Leu
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Tyr Ala Leu Asp Gln Met Ile Ala Ser Cys Ser Arg Leu Val Asn Glu
370 375 380

Gln Lys Glu Leu Ala Gln Gly Phe Leu Ala Asn Gln Met Arg Ala Glu
385 390 395 400

Asn Leu Lys Asp Ala Ser Val Leu Pro Asp Leu Cys Leu Ser His Ala
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Asn Gln Leu Met Ile Met Leu Gln Asn His Arg Lys Leu Leu Asp Ile
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Lys Gln Lys Cys Thr Thr Ala Lys Gln Glu Leu Ala Asn Asn Leu His

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Val Arg Leu Lys Trp Cys Cys Phe Val Met Leu His Ala Asp Gln Asp
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Gly Glu Lys Leu Gln Ala Leu Leu Arg Leu Val Ile Glu Leu Leu Glu
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Arg Val Arg Ile Val Glu Ala Leu Ser Thr Val Pro Gln Met Tyr Cys
485 490 495

Leu Ala Val Val Glu Val Val Arg Arg Lys Met Phe Ile Lys His Tyr
500 505 510

Arg Glu Trp Ala Gly Ala Leu Val Lys Asp Gly Lys Gln Leu Tyr Glu
515 520 525

Ala Glu Lys Ser Lys Arg Glu Ser Phe Gly Lys Leu Phe Arg Lys Ser
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Phe Cys Thr Gln Lys Pro Arg Lys Phe Asp Cys Glu Leu Pro Asp Ile
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Ser Leu Lys Asp Leu Gln Phe Leu Gln Ser Phe Cys Pro Ser Glu Val
580 585 590

Gln Pro Phe Leu Arg Val Pro Leu Leu Cys Asp Phe Glu Pro Leu His
595 600 605

Gln His Val Leu Ala Leu His Asn Leu Val Lys Ala Ala Gln Ser Leu
610 615 620

Asp Glu Met Ser Gln Thr Ile Thr Asp Leu Leu Asn Glu Gln Lys Val
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Ser Thr Ser Gln Ala Ser Pro Gln Ser Ala Ala Ser Pro Arg Ile Glu
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Ser Thr Thr Gly Ile Thr Thr Thr Ser Pro Lys Thr Pro Pro Pro
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Leu Thr Val Gln Asp Thr Leu Cys Pro Ala Val Cys Pro Leu Glu Glu
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Pro Gln Ser Pro Glu Met Met Val Glu Ser Leu Tyr Ser Ser Val Ile
755 760 765

Asn Ala Ile Asp Ser Arg Arg Met Gln Asp Thr Ser Thr Arg Gly Asn
770 775 780

Glu Gly Phe Gly Asp Arg Ala Ala Leu His Val Gln Leu Glu Lys Cys
785 790 795 800

Arg Ala Ala Ala Gln Asp Ser His Thr Ser Ile Gln Thr Ile Lys Asp
805 810 815

Asp Leu Cys His Phe Arg Thr Phe Val Gln Lys Glu Gln Cys Asp Leu
820 825 830

Ala Asn Tyr Leu Lys Cys Thr Ala Val Glu Ile Arg Asn Ile Ile Glu
835 840 845

Lys Val Lys Cys Ser Leu Glu Ile Thr Leu Lys Glu Lys His Gln Gln
850 855 860

Glu Leu Gln Ser Leu Lys Ile Glu Tyr Glu Cys Lys Leu Asp Ala Leu
865 870 875 880

Val Lys Asp Ser Glu Glu Asn Val Asn Lys Ile Leu Lys Leu Lys Glu
885 890 895

Asn Leu Val Ser Leu Glu Glu Ala Leu Gln Asn Lys Asp Asn Glu Phe
900 905 910

Thr Ser Ile Lys His Glu Lys Asp Ala Ile Val Cys Val Gln Gln Glu
915 920 925

Lys Asp Gln Lys Leu Leu Glu Met Glu Lys Ile Met His Thr Gln His
930 935 940

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Leu Lys Lys Leu His Asp Glu Lys Ile Glu Ser Leu Arg Ala Glu Phe
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Gln Cys Leu Glu Glu Asn His Leu Lys Glu Leu Glu Asp Thr Leu His
980 985 990

Ile Arg His Thr Gln Glu Phe Glu Lys Val Met Thr Asp His Asn Met
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Ser Leu Glu Lys Leu Lys Lys Glu Asn Gln Gln Arg Ile Asp Gln
1010 1015 1020

Met Leu Glu Ser His Ala Ser Thr Ile Gln Glu Lys Glu Gln Gln
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Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu Ser Asp Met Arg
1040 1045 1050

Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu Ala Glu Thr Asp
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Met Leu Lys Ser Leu Leu Glu Gln Glu Thr Glu Asn Leu Arg Thr
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Glu Ile Ser Lys Leu Asn Gln Lys Ile His Asp Asn Asn Glu Ser
1100 1105 1110

Tyr Gln Val Gly Leu Ser Glu Leu Arg Ala Leu Met Thr Ile Glu
1115 1120 1125

Lys Asp Gln Cys Ile Ser Glu Leu Ile Ser Arg His Glu Glu Glu
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Ser Asn Ile Leu Lys Ala Glu Leu Asp Asn Val Thr Ser Leu His
1145 1150 1155

Arg Gln Ala Tyr Glu Ile Glu Lys Lys Leu Lys Glu Gln Ile Val
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Leu Ile Gln Asn Leu Glu Lys Asp Lys Glu Arg Leu Val Lys Asn
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Lys Asn Glu Glu Met Gln Asn Val Arg Thr Ser Leu Ile Ala Glu
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Gln Gln Thr Asn Phe Asn Thr Val Leu Thr Arg Glu Lys Met Arg
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Glu Asp Arg Ala Arg Leu Leu Glu Glu Lys Lys Gln Leu Glu Glu
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Glu Val Ser Lys Leu Arg Thr Ser Ser Phe Leu Ser Ser Ala Pro
1385 1390 1395

Val Ala Ala Ala Pro Glu Leu Tyr Gly Ala Cys Ala Pro Glu Leu
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Pro Gly Glu Pro Glu Arg Ser Val Met Glu Thr Ala Asp Glu Gly
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1420

1425

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Thr Leu Gln Leu Lys Glu Glu Glu Asn Lys Arg Leu Asn Gln Arg
 1460 1465 1470

Leu Met Ser Gln Ser Leu Ser Ser Val Ser Ser Arg His Ser Glu
 1475 1480 1485

Lys Ile Ala Ile Arg Asp Phe Gln Val Gly Asp Leu Val Leu Ile
 1490 1495 1500

Ile Leu Asp Glu Arg His Asp Asn Tyr Val Leu Phe Thr Val Ser
 1505 1510 1515

Pro Thr Leu Tyr Phe Leu His Ser Glu Ser Leu Pro Ala Leu Asp
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Leu Lys Pro Gly Glu Gly Ala Ser Gly Ala Ser Arg Arg Pro Trp
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Val Leu Gly Lys Val Met Glu Lys Glu Tyr Cys Gln Ala Lys Lys
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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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28

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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<220>
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<400> 23
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<212> DNA

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PATENTIN Revised Listing_ST25.txt

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<210> 36
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PATENTIN Revised Listing_ST25.txt

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<210> 38

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23

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PATENTIN Revised Listing_ST25.txt
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PATENTIN Revised Listing_ST25.txt

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<210> 72

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PATENTIN Revised Listing_ST25.txt

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18

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PATENTIN Revised Listing_ST25.txt

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<220>

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20

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PATENTIN Revised Listing_ST25.txt

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20

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<210> 86

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<223> artificially synthesized primer sequence called MCC-3S

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<210> 87

<211> 20

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gacgggttgtg tcgggttgg

18

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22

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PATENTIN Revised Listing_ST25.txt

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20

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PATENTIN Revised Listing_ST25.txt

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caacagtttt ctgtggtttt gc

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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22

<210> 124

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PATENTIN Revised Listing_ST25.txt
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21

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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PATENTIN Revised Listing_ST25.txt

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gaaacaacag gtctgtatct

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cttgttccag accaatttta

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PATENTIN Revised Listing_ST25.txt

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tcacttttag agaaaaatatt

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<210> 170
<211> 20
<212> DNA
<213> human

<400> 170
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<210> 171
<211> 20
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<213> human

<400> 171
tcaaagactg gtaagattt

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PATENTIN Revised Listing_ST25.txt

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<212> DNA
<213> human

<400> 172
tttttttag atgtctcaga

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<213> human

<400> 173
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<211> 20
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<213> human

<400> 174
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<211> 20
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<400> 175
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<211> 20
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<400> 176
attcattag cttaggtgc

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<211> 20
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<213> human

<400> 177
agccaaaaag gtaaaaacga

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<210> 178
<211> 20
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<400> 178
tccctcttag gcacaaaaca

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PATENTIN Revised Listing_ST25.txt

<210> 179
<211> 28
<212> DNA
<213> Artificial

<220>
<223> Artificial Sequence

<400> 179
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28

<210> 180
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Artificial Sequence

<400> 180
cccaagctta gccagcgagc tgtggag

27

<210> 181
<211> 40
<212> DNA
<213> Human

<400> 181
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40

<210> 182
<211> 40
<212> DNA
<213> Human

<400> 182
gataaatcat catgaagtta ttaatacatt ctatgacatt

40